



Research Job Function

Electronic Technician IV

Grade 54

Summary

Performs layout and experimental testing of complex electronic components and systems in a laboratory environment and troubleshoots, modifies, and adjusts experimental circuitry or prototype models.

Typical Duties

1. Examines rough sketches and preliminary engineering drawings, completing design details and making equipment layout.
2. Establishes circuit-layout dimensions using mathematical calculations, electronic circuit theory, and basic engineering principles.
3. Determines or approves factors such as tolerances, voltage, and impedance and compiles list of stock or substitute parts to be used.
4. Helps determine types of tests to be performed, approves or suggests modifications to testing equipment, and analyzes test results to measure the performance of developed systems.
5. Troubleshoots, modifies, and adjusts experimental circuitry prototypes, solving practical and technical problems.
6. Prepares reports, charts, and graphs for use in making design and development decisions.
7. May oversee work of technicians in construction and testing and assist them when needed.8. Performs related duties as required.

Typical Requirements

Education: Technical school or service training beyond high school preferred.

Skills and Experience: Five or more years of experience in development and testing of electronic circuitry and components.

Note: This is a model job description reflecting a sample of typical duties. It is intended to suggest a general level of skill and complexity and as such is not a substitute for the local, specific descriptions for individual jobs.

Other [HUCTW generic job descriptions](#) can be found in HARVie's Union Contracts section.